

# XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 255

Type: **not specified**

## The future DIS program in Jefferson Lab's Halls A and C

*Wednesday 18 April 2018 16:54 (24 minutes)*

The recently completed 12 GeV upgrade of Jefferson Lab's Continuous Electron Beam Accelerator Facility (CEBAF) has established a unique worldwide capability for the precision study of a variety of inclusive, semi-inclusive, and exclusive reactions in deep inelastic electron-nucleon and electron-nucleus scattering. The near-doubling of CEBAF's maximum electron beam energy to 11 GeV (for electron scattering experiments) will enable the mapping of novel multidimensional aspects of nucleon and nuclear structure in the valence region, such as Transverse Momentum Dependent Parton Distributions (TMDs) and Generalized Parton Distributions (GPDs), with unprecedented precision. An exciting program of experiments is planned in experimental Halls A, B, and C, exploiting recent advances in high-luminosity polarized target technology, as well as new and upgraded detection apparatus, to take maximal advantage of the upgraded CEBAF beam. In this talk, I will present an overview of expected results of interest to the DIS community from planned experiments of the 11 GeV era in JLab's Halls A and C.

**Author:** PUCKETT, Andrew (University of Connecticut)

**Presenter:** PUCKETT, Andrew (University of Connecticut)

**Session Classification:** WG7: Future of DIS

**Track Classification:** WG7: Future of DIS